## PATENT COOPERATION TREATY **PCT**

REC'D 19 JUL 2005

PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATEN FABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

oplicant's or agent's file reference .609PCT MP:MM	FOR FURTHER ACTION	See Form PCT/IPEA/416					
ternational application No. CT/AU2004/001053	International filing date (day/month/) 9 August 2004	Priority date (day/month/year)  8 August 2003					
ternational Patent Classification (IPC)	or national classification and IPC						
ıt. Cl. 7 H04L 1/16, 12/56; H03M 5/12							
pplicant CLIPSAL INTEGRATED SYSTEMS PTY LTD et al							
. This report is the international prelim Authority under Article 35 and transi	ninary examination report, established by mitted to the applicant according to Artic	this International Preliminary Examining le 36.					
. This REPORT consists of a total of	4 sheets, including this cover sheet.						
. This report is also accompanied by A	NNEXES, comprising:						
a. (sent to the applicant and to	the International Bureau) a total of sl	neets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. This report contains indications rela	ating to the following items:						
X Box No. I Basis of the I	report	•					
Box No. II Priority							
Box No. III Non-establis	hment of opinion with regard to novelty,	inventive step and industrial applicability					
X Box No. IV Lack of unity	y of invention						
Reasoned str	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain docu		•					
1 1	cts in the international application	•					
Box No. VIII Certain obse	Box No. VIII Certain observations on the international application						
Date of submission of the demand	Date of con	pletion of the report					
8 June 2005	30 June 20	30 June 2005					
Name and mailing address of the IPEA/AU	J Authorized C	Authorized Officer					
ALISTR ALIAN PATENT OFFICE	·	•					
PO BOX 200, WODEN ACT 2606, AUS E-mail address: pct@ipaustralia.gov.au		BEN TUOHY					
Facsimile No. (02) 6285 3929	Telephone	Telephone No. (02) 6283 7918					

# BEST AVAILABLE COPY

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001053

x No. I	Bas	sis of the	e report						
With	regard to t	he langu	age, this r	report is based on the international application in the language in which it was filed, unless					
	This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:								
	international search (under Rules 12.3 and 23.1 (b))								
				rnational application (under Rule 12.4)					
				ary examination (under Rules 55.2 and/or 55.3)  e international application, this report is based on (replacement sheets which have been  e international application under Article 14 are referred to in this report as "originally					
furn	n regard to ished to the l" and are t	e receivii	ng Office i	n response to an invitation under Article 14 a. 0. 9					
X	the intern	ational a	pplication	as originally filed/furnished					
	the descri	ption:							
			pages	as originally filed/furnished  received by this Authority on with the letter of					
			pages*	received by this Authority on with the letter of received by this Authority on with the letter of					
	. 1 1 1		pages*	received by this Authority of the Control of the Co					
	the claim		20,000	as originally filed/furnished					
			pages*	as amended (together with any statement) under Article 19					
			pages*	received by this Authority on with the letter of					
			pages*	received by this Authority on with the letter of					
	the draw		1.0						
L		Ü	pages	as originally filed/furnished					
			pages*	received by this Authority on with the letter of					
			pages*	received by this Authority on with the letter of					
	3		-	ny related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.	The amendments have resulted in the cancellation of:								
		the desc	ription, pa	ages					
the claims, Nos.									
the drawings, sheets/figs				ets/figs					
the sequence listing (specify):									
	ed to the sequence listing (specify):								
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been								
		the des	cription, p	ages .					
	the claims, Nos.								
	the drawings, sheets/figs								
				ing (specify):					
		any tab	ole(s) relat	ed to the sequence listing (specify):					
•	If item 4 ap	plies, som	ne or all of t	those sheets may be marked "superseded."					

## SEST AVAILABLE COPY

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001053

No. IV	Lack of unity of invention	
In	esponse to the invitation to restrict or pay additional fees the applicant has:	
[	restricted the claims.	
[	paid additional fees.	
[	paid additional fees under protest.	
[	neither restricted nor paid additional fees.	
X n	is Authority found that the requirement of unity of invention is not complied wi t to invite the applicant to restrict or pay additional fees.	th and chose, according to Rule 68.1,
This A	hority considers that the requirement of unity of invention in accordance with R	rules 13.1, 13.2 and 13.3 is:
	mplied with.	
لتت	t complied with for the following reasons:	·
1	the international application does not comply with the requirements of unlate to one invention or to a group of inventions so linked as to form a significant to this conclusion the International Preliminary Examining Authorogy entions:	rity has found that there are two
	Claims 1 - 26 are directed to a communications protocol for use in a having a frame including a first time slot for transmitting data, a second for transmitting a first acknowledge state, and a third time slot, after transmitting a second acknowledge state. It is considered that the profirst time slot for transmitting data, a second time slot, after the first tacknowledge state, and a third time slot, after the second time slot, for acknowledge state comprises a first "special technical feature".	the second time slot, for tocol having a frame including a time slot, for transmitting a first or transmitting a second
	Claims 27 - 30 are directed to a method of providing a marker in a d encoding data bits at a particular point in a data sequence to provide combination that is an illegal combination and recognising that illegal considered that encoding data bits at a particular point in a data sequence combination that is an illegal combination and recognising that comprises a second "special technical feature".	al combination as a marker. It is ence to provide states, generating a illegal combination as a marker
	Since the above mentioned groups of claims do not share either of the technical relationship" between the inventions, as defined in PCT rule 1 international application does not relate to one invention or to a single in	5.2 4005 1.01 0
Cons	quently, this report has been established in respect of the following parts of the i	nternational application:
•	X all parts.	
	the parts relating to claims Nos.	

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/AU2004/001053

30x No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

	. Statement							
	Novelty (N)	Claims	1 – 30		YES			
		Claims	None		NO			
	Inventive step (IS)	Claims	1-30		YES			
		Claims	None		NO			
	Industrial applicability (IA)		1-30		YES			
		Claims			NO			

<sup>2.</sup> Citations and explanations (Rule 70.7)

## Documents cited for the purpose of compiling this report:

- (D1) US 6574668 B1 (GUBBI et al.) 3 June 2003;
- (D2) WO 2001/078426 A1 (PROXIM, INC. et al.) 18 October 2001;
- (D3) WO 2004/034310 A2 (COLDER PRODUCTS COMPANY) 22 April 2004; and
- (D4) US 2003/227934 A1 (WHITE et al.) 11 December 2003.

### NOVELTY (N) and INVENTIVE STEP (IS) claims 1 - 30

The invention defined in claims 1-26 is novel and inventive in light of the cited prior art documents that do not, either alone or in obvious combination, disclose all of the features defined in the claims. In particular none of the documents disclose or obviously suggest to a person skilled in the art the feature of a protocol having a frame including a first time slot for transmitting data, a second time slot, after the first time slot, for transmitting a first acknowledgement state, and a third time slot, after the second time slot, for transmitting a second acknowledgement state.

The invention defined in claims 27-30 is novel and inventive in light of the cited prior art documents that do not, either alone or in obvious combination, disclose all of the features defined in the claims. In particular none of the documents disclose or obviously suggest to a person skilled in the art the feature of providing a marker in a data frame including encoding data bits at a particular point in a data sequence to provide states, generating a state combination that is an illegal combination and recognising that illegal combination as a marker.